NAPT Program
North American Proficiency Testing

2005 North American Proficiency Testing Program

1st Quarter Report June 14, 2005

Soil Science Society of America

Laboratory ID
6002

Plant			Plant 2005-201			Plant 2005-202			Plant 2005-203		
Analysis	**Units**	***n***	**Median**	***MAD***	**Lab**	**Median**	***MAD***	**Lab**	**Median**	***MAD***	**Lab**
Dry Matter	%	32	**91.6**	*0.46*		**94.0**	*0.47*		**91.9**	*0.50*	
NO_3 - N Cd Rd.	mg/kg	24	**96**	*31*		**61**	*16*		**614**	*69*	
NO_3 - N ISE	mg/kg	11	**156**	*63*		**166**	*28*		**757**	*160*	
NO_3 - N Other	mg/kg	2	**418**	*383*		**243**	*208*		**808**	*693*	
NH_4-N	mg/kg	2	**101**	*56*		**185**	*74*		**348**	*61*	
PO_4 - P	mg/kg	17	**780**	*100*		**1360**	*61*		**2405**	*98*	
SO_4 - S	mg/kg	6	**698**	*291*		**1170**	*170*		**948**	*109*	
Cl	%	21	**0.19**	*0.07*		**0.43**	*0.07*		**0.45**	*0.05*	
TKN	%	28	**2.45**	*0.050*		**2.67**	*0.09*		**0.82**	*0.06*	
N- Dry Comb.	%	60	**2.51**	*0.055*		**2.79**	*0.066*		**0.850**	*0.039*	
S- Dry Comb.	%	16	**0.262**	*0.026*		**0.287**	*0.027*		**0.146**	*0.016*	
Nitric / Perchloric / H_2O_2 Digest											
P	%	41	**0.130**	*0.010*		**0.230**	*0.010*		**0.310**	*0.010*	
K	%	39	**1.01**	*0.06*		**1.31**	*0.06*		**2.42**	*0.12*	
Ca	%	41	**4.42**	*0.19*		**1.66**	*0.08*		**1.79**	*0.10*	
Mg	%	41	**0.35**	*0.010*		**0.23**	*0.010*		**0.71**	*0.02*	
S	%	37	**0.260**	*0.018*		**0.270**	*0.010*		**0.150**	*0.010*	
Na	%	31	**0.020**	*0.003*		**0.014**	*0.004*		**0.127**	*0.007*	
Al	mg/kg	18	**175**	*43*		**59.5**	*24.7*		**76.1**	*21*	
B	mg/kg	33	**98.8**	*6.2*		**20.8**	*1.8*		**42.4**	*2.6*	
Zn	mg/kg	40	**69.0**	*3.7*		**24.9**	*2.0*		**77.0**	*4.1*	
Mn	mg/kg	38	**46.0**	*2.3*		**16.9**	*1.4*		**152**	*7.8*	
Fe	mg/kg	39	**198**	*10.1*		**102**	*8.0*		**79.9**	*9.3*	
Cu	mg/kg	39	**25.8**	*1.2*		**7.4**	*0.6*		**18.3**	*0.80*	
Mo	mg/kg	8	**0.49**	*0.48*		**1.03**	*0.38*		**0.45**	*0.38*	

1 - Values flagged exceed Warning Limits " * " 2.5 x MAD (Median Absolute Deviation) and Control Limits " ** " 4 x MAD. "<" and "ND" values not recorded.

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Analysis	**Units**		**Median**	***MAD***	**Lab**	**Median**	***MAD***	**Lab**	**Median**	***MAD***	**Lab**
Dry Ash											
P	%	31	**0.130**	*0.010*		**0.223**	*0.011*		**0.300**	*0.020*	
K	%	32	**0.96**	*0.05*		**1.29**	*0.05*		**2.36**	*0.08*	
Ca	%	31	**4.35**	*0.15*		**1.68**	*0.06*		**1.71**	*0.06*	
Mg	%	31	**0.34**	*0.021*		**0.23**	*0.010*		**0.69**	*0.03*	
Na	%	26	**0.020**	*0.002*		**0.017**	*0.005*		**0.124**	*0.016*	
Al	mg/kg	14	**152**	*25*		**51.0**	*11.6*		**73.0**	*15.8*	
B	mg/kg	31	**97.5**	*4.2*		**22.0**	*1.4*		**42.0**	*2.5*	
Zn	mg/kg	33	**64.3**	*4.7*		**23.3**	*3.0*		**75.0**	*5.1*	
Mn	mg/kg	33	**42.6**	*3.4*		**16.1**	*1.3*		**141**	*11.3*	
Fe	mg/kg	30	**157**	*27.7*		**97.0**	*14.0*		**68.5**	*10.7*	
Cu	mg/kg	32	**24.0**	*1.50*		**7.6**	*0.57*		**17.0**	*1.50*	
Mo	mg/kg	4	**0.29**	*0.28*		**0.61**	*0.34*		**0.31**	*0.30*	
Microwave Digestion											
P	%	16	**0.125**	*0.005*		**0.235**	*0.013*		**0.304**	*0.015*	
K	%	16	**0.97**	*0.04*		**1.30**	*0.04*		**2.45**	*0.09*	
Ca	%	16	**4.55**	*0.21*		**1.72**	*0.07*		**1.83**	*0.08*	
Mg	%	16	**0.34**	*0.02*		**0.23**	*0.007*		**0.73**	*0.04*	
S	%	15	**0.270**	*0.020*		**0.270**	*0.010*		**0.15**	*0.006*	
Na	%	16	**0.020**	*0.003*		**0.012**	*0.002*		**0.132**	*0.008*	
Al	mg/kg	12	**167**	*27*		**62.1**	*17.1*		**78.2**	*13.5*	
B	mg/kg	15	**97.7**	*3.4*		**21.4**	*0.92*		**42.0**	*2.4*	
Zn	mg/kg	16	**65.1**	*4.0*		**25.5**	*3.1*		**79.7**	*3.1*	
Mn	mg/kg	16	**45**	*2.4*		**17.0**	*0.70*		**152**	*7.3*	
Fe	mg/kg	16	**195**	*15*		**105**	*9.7*		**78.2**	*10.4*	
Cu	mg/kg	16	**24.0**	*1.28*		**7.4**	*1.41*		**18.0**	*0.9*	
Mo	mg/kg	6	**0.19**	*0.17*		**0.85**	*0.34*		**0.27**	*0.19*	

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